

Comparisons of Job Characteristics

Focus Occupation: Actuaries (15-2011)

Associated Occupation: Statisticians (15-2041)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: Actuaries (15-2011)
Associated Occupation: Statisticians (15-2041)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mathematics	9.2	15.7	24.8	>>	Current knowledge level is likely more than sufficient
Computers and Electronics	8.4	15.1	15.9	0	Current knowledge level may be sufficient
Biology	3.7	7.1	1.6	<<	Extensive education and/or training may be required
Medicine and Dentistry	3.7	6.2	2.6	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: Actuaries (15-2011)
Associated Occupation: Statisticians (15-2041)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mathematics	6.2	15.7	17.2	0	Current skill level may be sufficient
Critical Thinking	10.8	14.6	16.4	>	Skill level is likely sufficient
Programming	2.2	10.8	6.7	<<	Extensive development of skills in this area may be required
Science	4.5	10.6	4.8	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 99

Focus Occupation: Actuaries (15-2011)

Associated Occupation: Statisticians (15-2041)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mathematical Reasoning	6.3	16.1	17.3	0	Current ability level may be sufficient
Deductive Reasoning	10.6	15.4	15.5	0	Current ability level may be sufficient
Inductive Reasoning	10.2	14.4	14.5	0	Current ability level may be sufficient
Written Comprehension	11.0	14.4	15.2	0	Current ability level may be sufficient
Information Ordering	9.9	14.2	12.6	<	Some improvement in abilities may be required
Written Expression	9.8	13.9	12.4	<	Some improvement in abilities may be required
Number Facility	6.3	13.0	17.0	>>	Current ability level is likely more than sufficient
Category Flexibility	9.0	12.2	12.0	0	Current ability level may be sufficient
Flexibility of Closure	7.8	10.2	9.8	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 96

Focus Occupation: Actuaries (15-2011)

Associated Occupation: Statisticians (15-2041)

Work Activities	Exclusivity of Activity
Analyze scientific research data or investigative findings	27
Analyze social or economic data	63
Collect statistical data	47
Communicate technical information	4
Compile numerical or statistical data	38
Create mathematical or statistical diagrams or charts	43
Develop mathematical ideas or interpretations	85
Develop mathematical simulation models	70
Develop or maintain databases	30
Develop tables depicting data	33
Explain complex mathematical information	30
Interpret charts or tables for social or economic research	70
Make presentations	13
Perform statistical modeling	76
Prepare reports	8
Prepare technical reports or related documentation	22
Provide expert testimony on research results	66
Recognize interrelationships among social statistics or indicators	77

Use computers to enter, access or retrieve data	3
Use knowledge of investigation techniques	16
Use mathematical or statistical methods to identify or analyze problems	30
Use quantitative research methods	35
Use relational database software	26
Use spreadsheet software	18
Use word processing or desktop publishing software	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 93

Focus Occupation: Actuaries (15-2011)
Associated Occupation: Statisticians (15-2041)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1
Development software	4
Industry specific software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.